# ITS PROJECT APPLICATION FORM FY 2009

**General Instructions:** This form is to be used to request federal Congestion Mitigation and Air Quality (CMAQ) funding available through the Maricopa Association of Governments for Intelligent Transportation System (ITS) projects to be included in the FY 2009-2013 MAG Transportation Improvement Program. This application is to be used for funding requests for new ITS projects in **FY 2009**.

Separate application forms are available for bicycle, pedestrian, air quality, and transit projects. Freeway, street and rail transit projects will be programmed in a separate process.

This application form includes:

- Part A: Project Description and TIP Listing Information. In Part A, the applicant provides the minimum information necessary to list a project in the TIP as required by applicable federal regulations and general descriptive information necessary for MAG staff and technical committees to evaluate the project.
- Part B: Project Congestion Management System (CMS) and Congestion Mitigation Air Quality (CMAQ) Data: In Part B, the applicant provides data necessary for MAG staff to calculate CMS and CMAQ scores for projects.
- Part C: MAG Technical Committee Additional Information. This section is used to collect information requested by the MAG ITS Committee. The MAG ITS Committee is charged with evaluating and recommending ITS projects for federal funding. PLEASE NOTE: Part C is only available electronically. It is available at: <a href="http://www.mag.maricopa.gov/project.cms?item=413">http://www.mag.maricopa.gov/project.cms?item=413</a>, or you can contact Leo Luo: <a href="http://www.mag.maricopa.gov">lluo@mag.maricopa.gov</a>, and he will send you the electronic file.

**Deadlines and Transmittal Instructions**: All sections should be completed and returned to MAG Offices by **5:00 p.m. September 14, 2007**. Please e-mail Judy Tadlock at MAG, <a href="mailto:jtadlock@mag.maricopa.gov">jtadlock@mag.maricopa.gov</a> this application (Part A & B). Part C is only available electronically as noted above. Please e-mail Leo Luo the completed Part C, excel file to <a href="mailto:luo@mag.maricopa.gov">luo@mag.maricopa.gov</a>. The mailing address and FAX number for the MAG offices is:

ATTN: Judy Tadlock Maricopa Association of Governments 302 North 1<sup>st</sup> Avenue, Suite 300 Phoenix, Arizona 85003 FAX Number: (602) 254-6490

**Electronic Download Information**: A downloadable version of these forms in Microsoft Word is available on the MAG website at <a href="http://www.mag.maricopa.gov/project.cms?item=413">http://www.mag.maricopa.gov/project.cms?item=413</a>. If requested, MAG staff will also provide these forms via e-mail or FAX.

**MAG Contact Information**: If you have any questions, please contact Stephen Tate or Eileen Yazzie at (602) 254-6300 or at state@mag.maricopa.gov.

**Agency Contact Information**: Please complete the following contact information for <u>each</u> project, so that we may contact you should we need additional information.

1.	Name of the Agency Contact for the Project Request:	2.	Telephone:
	Luke Albert		623-882-7519
3.	E-mail	4.	Date:
	Luke.albert@goodyearaz.gov		9/14/07

# ITS PROJECT APPLICATION FORM – FY 2009-2013 TIP Part A: Project TIP Listing Information and Description

-		-							
Se	Section One: TIP Listing Information.								
Ple fun	Please complete the following information for <u>all</u> projects. If the project is accepted for MAG federal funding, the project information provided in this section will appear in the TIP as provided by the applicant								
1.	Sponsoring Agency Name:	2.	Year (Please check	k box):					
	City of Goodyear		FY 2009						
3.	Project Location (The project limits if applicab	ile):							
	Various Locations								
4.	,, , , , , , , , , , , , , , , , , , , ,								
	Purchase Dynamic Message Signs								
5.	Amount of Federal Funds Requested (This amount cannot exceed <b>70.0</b> percent of the total cost of the project.):	6.	Type of Federal Fu box.):	unds Requested (Please check					
	\$200,000		☐ MAG STP	⊠ CMAQ					
7.	Amount of Local Funds to be Used (This amount cannot be less than <b>30.0</b> percent of the total cost of the project.):	8.	Type of Local Funds to be Used: (Please check only one box.):						
	\$200,000		HURF	☐ Impact Fees					
	\$200,000		☐ General Fund	☐ Bond Proceeds					
			☐ Sales Tax	☐ Private					
			☐ Property Tax	Other, Please specify:					
9.	). Total Cost of the Project: (This amount must equal the sum of the federal and local amounts requested):								
	\$400,000								
	<ul> <li>Please attach a map, drawing, photograph, p no graphic is available or it is not feasible to pro</li> </ul>								

10. Please attach a map, drawing, photograph, plans or other graphic showing the location of the project. If no graphic is available or it is not feasible to provide one, please indicate this fact in the space below. The attached map shows locations of City facilities, including the Cleveland Indians spring training facility that is currently under construction. These signs will be used as needed in various locations throughout the City to provide information to travelers attending events in the City of Goodyear. At times that no events are occurring, the signs will be used to provide information to travelers for other City purposes.

# ITS PROJECT APPLICATION FORM - FY 2009-2013 TIP Part B: CMS and CMAQ Data

General Instructions: In Part B, the applicant provides data necessary for MAG staff to calculate

	stion Management Syste				IOI WAO SIAII I	o calculate
Please	complete the following calculate CMS scores.				ation used in thi	s section is
1.	Current Average Daily Traffic (ADT) on the Facility or the Nearest Parallel Facility of a Similar Type:  31,000	Name of the Section Use Estimate:  Litchfield F	ed for the ADT	(Check ☐ Artei ☑ Artei	Facility to be Imonly one box): rial > 4 legs (e.g. rial Street ector Street	
4.	Number of <b>Through</b> Lanes Currently on the Facility Prior to Project Completion (Do <u>not</u> include right, left or center turn lanes):	Lanes of After the Completing include lanes):	r of <b>Through</b> on the Facility e Project is eted (Do <u>not</u> auxiliary	mile	ngth of the Facility (in les):	
7.	6 Township Coordinate	6 8 Range	Coordinate of		<ul><li>4.75 Miles Goodyear</li><li>9. Section Coordinate of the Midpoir of the Facility:</li><li>Section 3 and Section 4</li></ul>	
•	of the Midpoint of the Facility:  Township 1 North	the Mid Facility:	point of the	of the F		
10.	<ul><li>a. Enter the pre-impro</li><li>b. In the Table Check Box):</li></ul>	ovement (current)	traffic speed of	the traffic co	rridor:	Only One
		Improvement) dition	Condition Incr		Expected Increase In Speed	
	Non-interconnecte signals with old tin		Advanced comput control	er-based	25.0 percent	
	Interconnected, pr with old timing pla		Advanced comput control	er-based	17.5 percent	
	Non-interconnecte traffic-actuated co		Advanced comput control	er-based	16.0 percent	
	Interconnected, pr with actively mana	re-timed signals aged timing	Advanced comput control	er-based	8.0 percent	
	Interconnected, pr with various forms control and variou plans		Optimization of signans. No change		12.0 percent	
	Non-interconnecte signals with old tin		Optimization of Si Plans	gnal Timing	7.5 percent	

# ITS PROJECT APPLICATION FORM – FY 2009-2013 TIP Part B: CMS and CMAQ Data Other Project Information: (Check as many as are applicable): Includes Traffic Signal Improvements for a Single Agency Includes Traffic Signal Improvements that Apply to More than One Agency Includes FMS Improvements The Project Conforms to Local Land Use Plans The facility is on the adopted MAG Roads of Regional Significance Network Adds Traffic Signals that increase pedestrian crossing time for seniors 12 Management System (Please check only one box) Congestion Management System (CMS) Safety Management System (SMS) Bridge Management System (BMS) Intermodal Management System (IMS) Pavement Management System (PMS) Other Public Transportation Management System (PTMS) 13. Please identify the priority the agency places on this project. If for example, the agency is submitting three requests for ITS projects and this is the agency's highest priority, then a "1" should be entered. Each priority entered should be unique - e.g. no two requests for ITS projects should have the same priority. 1 Part C: MAG Technical Committee Additional Information

This section is used to collect information requested by the MAG ITS Committee. The MAG ITS Committee is charged with evaluating and recommending ITS projects for federal funding. Part C is only available electronically. It is available at:

http://www.mag.maricopa.gov/project.cms?item=413, or you can contact Leo Luo at: lluo@mag.maricopa.gov, and he will send you the electronic file.

#### **Contact Information**

Please contact Sarath Joshua or Leo Luo at (602) 254-6300 or <a href="mailto:sjoshua@mag.maricopa.gov">sjoshua@mag.maricopa.gov</a>, <a href="mailto:sjoshua@mag.maricopa.gov">sjoshua@mag.maricopa.gov</a>, for additional information or questions.

# FY 2009 - 2013 TIP - Programming 2009 MAG ITS Project Data Form

Please enter project data ONLY in highlighted cells, save the file with the lead agency name in it - ie. Mesa ITS Projects.xls

Submit this Excel workbook to MAG via email to: LLUO@MAG.MARICOPA.GOV

Please use one worksheet per project, with the tab at the bottom indicating agency priority

Links to various websites are provided for additional information and help

The worksheet titled "Example" shows an example on how to enter Data in the highlighted areas. If errors are detected alerts will pop-up in red text.

The worksheet titled "HELP" shows how to figure out your project's ITS Subsystems & Architecture Flows

Please enter required information in highlighted cells

#### A. Project Title & Sponsor

Lead Agency	City of Goodyear
Other Partnering Agencies	
ITS Project Title:	Purchase Dynamic Message Signs

Purchase portable dynamic message signs for the City's use for special events and other City purposes.

#### **B. Project Goals & Objectives**

Project Goals:

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Objectives: The City's Spring Training (	Complex is currently	under constru	uction, and this o	omploy will be	used year	
ound for City of Goodyear						
congestion by monitoring a	nd directing motoris	ts during City of	of Goodyear eve	ents.		

# C. Define ITS Subsystems, Architecture Flows, Communications & Arterial ITS Applications

SELECT ITS Subsystems:	
http://www.iteris.com/itsarch/html/entity/pae	Yes or No
Center Subsystem	Yes
Traveler Subsystem	No
Field/Roadside Subsystem	Yes
Vehicle Subsystem	No
Communications Subsystem	Yes

<u>Architecture Flows</u> (Information flows among four subsystems: Traveler, Center, Roadside and Vehicle Subsystems)

From Subsystem	To Subsystem	Information flow
Field	Center	Dynamic Message Sign Display
Field	Center	Video Output
Center	Field	Dynamic Message Sign Changes
Center	Field	Camera Control

<u>Communications:</u> Required communications medium for data sharing with other agencies: (if applicable)

From agency	To agency	data flow	Medium		Check Date with Project Schedule

Arterial ITS applications	Relevant Applications (ENTER: Yes or No)	Applicable ITS User Services Addressed http://www.iteris.com/itsarch/html/user/userserv.htm	Applicable ITS Market Packages http://www.iteris.com/itsa rch/html/mp/mpindex.htm
1. Traffic Management	Yes	1.2, 1.3, 1.6	ATMS01, 03, 07, 08, 17
2. Transit Operations Support	No		
3. Interagency Data Sharing and Control	No		
4. Integrated Traveler Information	Yes	1.2, 1.3	ATMS06, 08, 17, 21
5. Archived Data Management	Yes	7.1	ATMS03, 21
6. Incident Management	Yes	1.7	ATMS06, 08, 21
7. Freeway-Arterial Operations	No		

### D. Project Budget

- (1) The total of all federal funds requested for ITS projects by any MAG member agency should not exceed \$1 million per program year per agency.
- (2) Joint projects that involve 3 or more agencies may exceed \$1m in federal cost. Federal cost of each agency's component will not be counted against the \$1m limit.
- (3) There is no limit on the number of projects that may be submitted by an agency, but each project requires the 30 percent local cost match
- (4) For multijurisdictional projects, the federal and local shares of each partnering agency must be shown below.

	Federal Cost	Local Match (min 30%)	Total Cost
Lead Agency	\$200,000.00	\$200,000.00	\$400,000.00
Partnering Agency#1			\$0.00
Partnering Agency#2			\$0.00
Partnering Agency#3			\$0.00
Total	\$200,000.00	\$200,000.00	\$400,000.00
Cost percentage	50.0%	50.0%	

Note: Each participating agency should provide at least 30% local match for its share of the total cost

# E. Project Schedule

The following project milestones and schedules are based on a typical project procurement process. Please select applicable milestones. Some ITS projects may follow an abbreviated process. ENTER estimated time for such a process

Standard Project Milestones	Default Schedule for Process	Applicable Milestones (ENTER - Yes OR No)	Estimated Time to Milestone (ENTER #Months)	Estimated Date (Enter> mm/yyyy)
Apply for ADOT project number				Mar-2008
Receipt of ADOT project number	May-2008	Yes	2	May-2008
Initial DCR	Jun-2008	No	0	NA
Final DCR	Jul-2008	No	0	NA
30% Preliminary Plans, Cost Estimate and Report	Sep-2008	No	0	NA
60% Preliminary Plans, Cost Estimate and Report	Nov-2008	No	0	NA
Final Preliminary Plans, Cost Estimate and Report	Jan-2009	No	0	NA
Environmental Clearance	Nov-2008	Yes	3	Jun-2008
Utility Clearance	Dec-2008	Yes	3	Jun-2008
Right-of-Way Clearance	Sep-2008	Yes	3	Jun-2008
Approval of IGA	Mar-2009	Yes	6	Sep-2008
Obligation authority of Federal funds	Apr-2009	Yes	8	Nov-2008
Advertised Date	Jun-2009	Yes	9	Dec-2008
Final Deployment	Dec-2009	Yes	11	Feb-2009

## F. System Maintenance and Operations

Current staff resources available for ITS operations at the local agency (FTEs)	1.5
Additional staff resources required for fully utilizing features added by project (FTEs)	0
Estimated current annual ITS operations & maintenance budget	\$200,000
Estimated additional annual operations & maintenance funds required for features added by project	\$20,000

Estimated DATE from when required additional O&M funds will be available	Nov-2008	
Other comments:		
And comments.		
N. O. atama Francisco de Arabata Barata ana at		
6. Systems Engineering Analysis Requirement		
Commitment to address the federal requirement for Systems Engine	ering Analysis:	
Agency's intent to follow the process described in the 'V' diagram (See Ap		
during the project development process	,	
The project sponsor or lead agency intends to incorporate the Systems Er		
project's Design Concept Report. The Systems Engineering Analysis will Engineering for ITS published by FHWA in January 2007. A guidelines do		
Ingineering for ITS published by FRWA in January 2007. A guidelines do IAG dated August 2006 is also available (both are posted at the MAG we		
ind dated August 2000 is also available (both are posted at the Mind we	balle).	

